

**BODY
INTERACT™**
CLINICAL
EDUCATION

The 2019 UAD Summer Course on
Experiential-Realistic Clinical Learning with Virtual
Patients using Body Interact Simulator
“MOVING FROM PASSIVE TO EXPERIENTIAL LEARNING”

Yogyakarta, August 12th -16th 2019



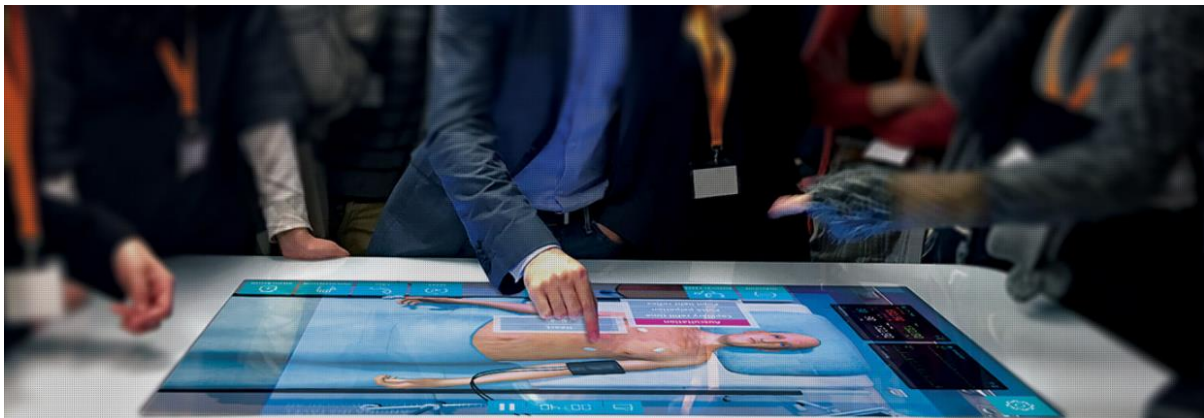
Faculty of Pharmacy
Universitas Ahmad Dahlan
2019

The 2019 UAD Summer Course on

The Wave of Future:

Experiential-Realistic Clinical Learning with Virtual
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Introduction:

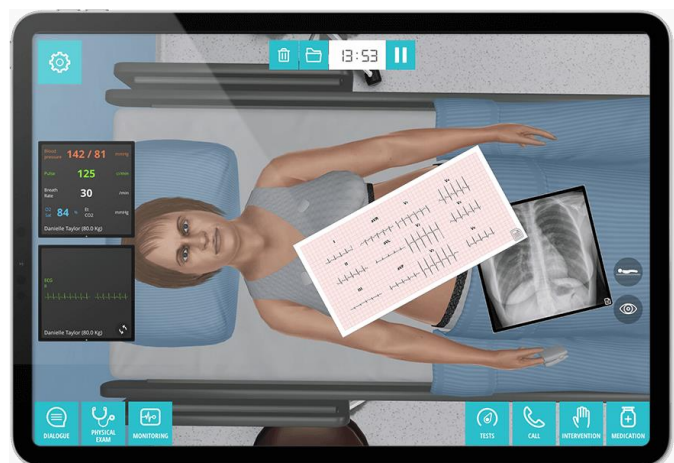
Body Interact is a state-of-the-art 3D medical simulator, ideal for accelerating learners' critical thinking and clinical decision making skills for improved acute and chronic care. Body Interact uses virtual patients for problem-solving and clinical reasoning, also allowing the creation of custom-made scenarios (authoring tool). Body Interact is ideally suited to bridge the gap between classroom instruction and high fidelity medical simulators. This immersive training platform is accessible anytime, anywhere, and on any device. The flexible design of Body Interact's simulation case studies adds new dimensions to deliver powerful results to self-directed and collaborative team learning. In addition, this device enables an integrative learning process, making connections among concepts and experiences so that information and skills can be applied to novel and complex issues or challenges, through real-life situations, establishing a culture of open communication. While providing educators with an extensive library of pre-configured clinical scenarios with updated guidelines, Body Interact also offers a user-friendly authoring tool to build customized scenarios, thereby expanding students' knowledge and enriching their experience.



What Makes It Unique?

- **Life-like Scenarios**

Training becomes safe and dynamic with Body Interact's virtual patients: due to its realistic engine with a set of proprietary physiological algorithms and artificial Intelligence, learners learn not only the facts but also the important, underlying "how's" and "why's" based on the patient's interactions, while tracking learners' performance and competence achievements through each simulation.



- **Gamification**

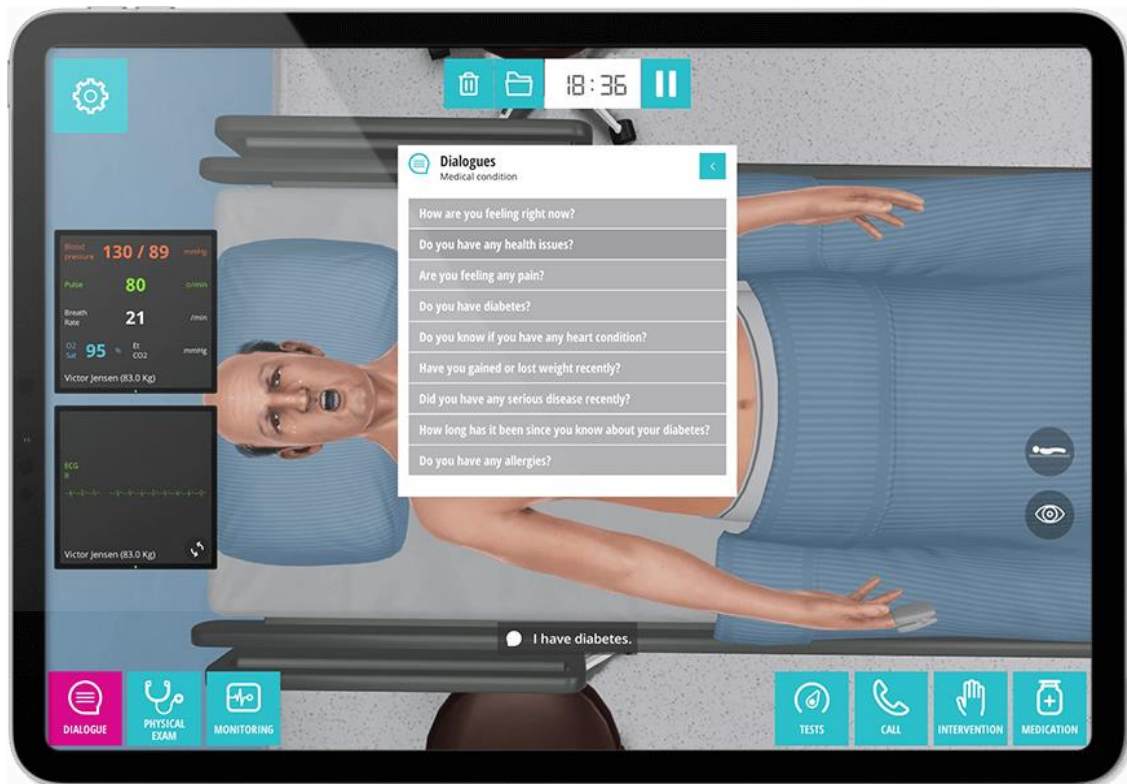
Each clinical scenario is a gaming and rich learning experience with a realistic user experience with various life-like virtual patients

- **Virtually Realistic**

Just as in real life, several kinds of actions can be taken: talk to the patient, perform physical examination and monitoring, request exams, give Medication, do an Intervention or call another specialty. Learners are free to make their own decisions.

- **Dynamic Dialogues**

At the beginning of each interactive scenario, learners will see a brief description of the patient's clinical history. When taking patient's history, it is possible to ask dozens of questions from many different topics. Since these patients are very similar to real ones: they may be aware or confused, agitated or unconscious, or even complaining. This will influence their answers during the simulation. In addition, when observing visual signs and symptoms the patients may show pain, consciousness, cyanosis and several chest movements.



- **Numerous Physical Examinations**

There are more than 60 physical exam items and tests available on this device. This includes ABCDE approach – Airway observation, Breathing, Circulation, Disability, and Exposure. With a wide range of physical examinations and tests that can be ordered, it will certainly help learners' diagnosis and treatment plan.

- **Real-time Monitoring**

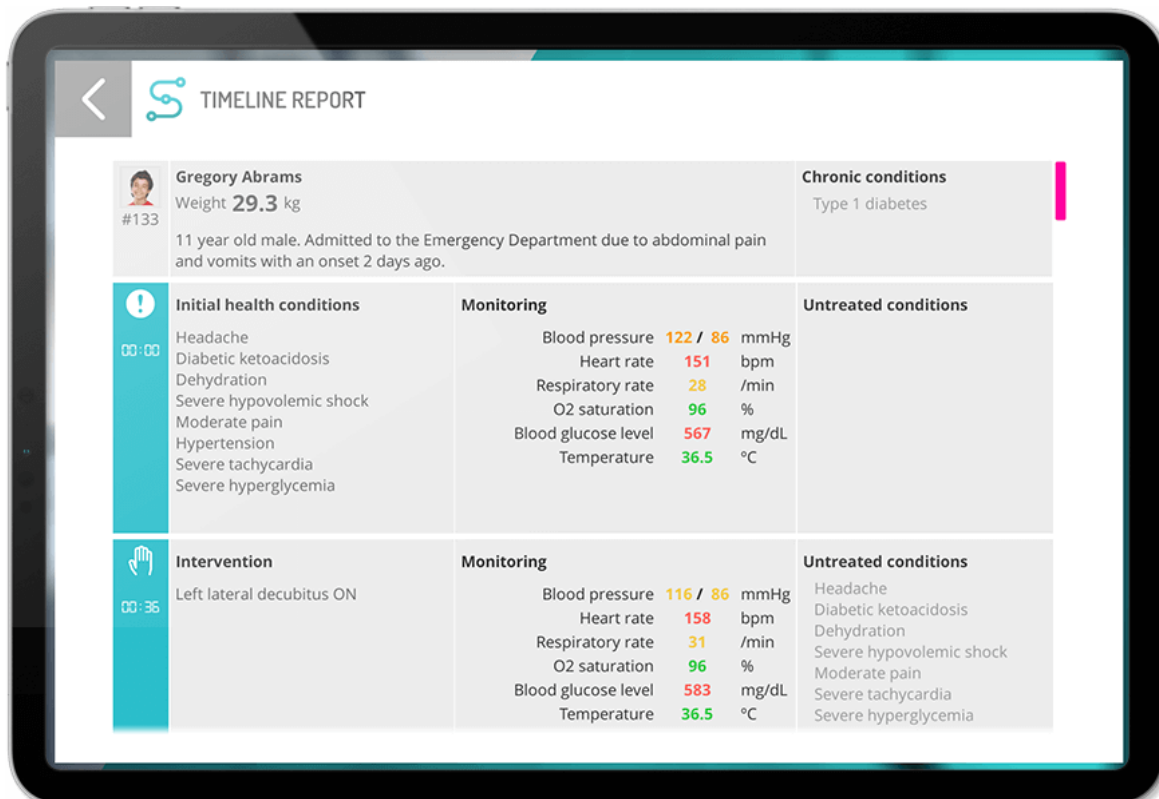
Real-time vital parameter monitors provide immediate information about blood pressure, ECG monitor, heart rate, respiratory rate, O2 saturation, diuresis, thermometer and glucometer.



Everything is connected in Body Interact: if the patient deteriorates, all related outcomes will re-adjust. In this dynamic simulation, learners are 100% responsible for designing their own diagnosis and treatment plan and acting accordingly. Likewise in real world, there is no predefined path limiting or persuading your actions.

- **Differential Diagnosis**

A differential diagnosis is a list of possible conditions or diseases that could be causing symptoms. When performing each scenario learners will collect information regarding medical history, signs and symptoms. The learners may perform physical evaluation, laboratory examinations and imaging.



- **Numerous Physical Interventions**

There are plenty of intervention options to be applied from catheters, defibrillation to chest compressions, oxygen, transfusions, etc.

- **Customizable**

The scenarios could be tailored in a way to perfectly suit your curricula. Body Interact new scenario editor allows you to create your own clinical scenarios to target your learning objectives or any of your needs. You can provide your students a flexible curriculum with a custom hands-on experience while taking advantage of the realistic engine dynamic rules. You can now create an engaging experience by employing configurable and adaptable medical case study scenarios. There are numerous clinical topics to choose as seen in a following picture:



Objectives:

The summer course offers one-week program to learn about clinical practice which focus on how to interpret complementary diagnostic tests in order to identify a clinical condition, how to establish a treatment strategy and how to select appropriate treatments according to the clinical risk. All these activities will be done using Body Interact Simulation with realistic virtual patients. In addition, the participants will also be exposed with practicality on how to do a good pharmaceutical care and good clinical practice that will take place directly at pharmacy and hospital of UAD.

Our approach combines:

- Interpreting complementary diagnostic tests in order to identify a clinical condition
- Knowing how to establish a treatment strategy
- Selecting treatments according to the clinical risk

Ultimately, the participants will first-handedly see and learn the beauty of local cultures of Indonesia by visiting some notable cultural spots around Yogyakarta. This activity will be guided by professional trainers.

Course Outcomes:

- The participants are able to do clinical learning virtually from realistic virtual patients using the Body Interact Simulator
- The participants understand each clinical case simulated on the Body Interact Simulator
- The participants understand how to do good pharmaceutical care in pharmacy
- The participants understand how to do good clinical practice in hospital
- The participants will be more well-informed about Indonesian cultures and wisdom

Topics:

This course covers five main areas including:

| Cardiology | Respiratory | Gastrointestinal | Infectious Disease | Mental Illness |

Cardiology and respiratory will exclusively be simulated on the Body Interact with various clinical scenarios related to these topics will be in-depth discussed and addressed using virtual patients while three other areas will be extensively learned practically through clinical visit at our pharmacy and hospital.

All these activities will be under supervision of the experts: our experienced healthcare professionals and clinicians from clinical practice and professors from clinical pharmacy field.

Date and Venue:

This summer course is mainly hosted at Faculty of Pharmacy UAD and includes some clinical visits to support the educational activities at our pharmacy and hospital. Also, there will be a day exclusively designed for participants to explore Indonesian culture and wisdom.

Arrival of Participants : 11 August 2019

Program duration : 12-16 August 2019

Participants:

This summer course program is eligible for undergraduate and graduate students with pharmacy, medical or any related backgrounds and is widely opened to students from both overseas and local universities.

Credits Info:

1.5 EC

ECTS

A certificate of attendance will be awarded

Language:

This course is fully taught in English

Important Dates:

Open application : May 25th 2019

Application Deadline : July 5th 2019

Requirements:

1. Undergraduate and graduate students with pharmacy, medical or any related backgrounds.
2. Curriculum vitae
3. Motivation Letter
4. Your current photo in color (taken within the last 6 month)
5. Copy of Student Card
6. Copy of Passport (ID page only)/ ID (only for locals)

Send all these files to following email: farmasi@uad.ac.id with the subject written as **Registration for UAD Summer Course 2019**. You will be notified for further instructions once we received your complete documents.

Fee Info:

The tuition fee is **500 USD** per participant that includes accommodation, simulations, lectures, teaching materials, clinical visits, coffee breaks and daily lunch (on course days) and cultural program.

The fee **does not include** individual travel arrangements and breakfast/ dinner (on course days).

Scholarship:

There is a scholarship available to fully cover the tuition fee for the first 10 registered participants from UAD partner Universities.

Organizing Committee:

Prof. Dr.Dyah Aryani Perwitasari Ph.D.,M.Si.,Apt
DR .dr.Akrom M.Kes

Trainers:

Andriana Sari M.Sc.,Apt
Ginangjar Zukhruf Putri M.Sc.,Apt
Haafizah Dania M.Sc.,Apt
Hendy Ristono M.Ph.,Apt
Lalu Muhammad Irham M.Farm.,Apt
Susan Fitria Candradewi, M.Sc., Apt

Address

Faculty of Pharmacy Universitas Ahmad Dahlan
Jl. Prof Dr Soepomo Janturan Kampus 3, Yogyakarta
Telp : +62274 - (563515), (511830), (371120)
Fax : +62274 - 564604
Email : farmasi@uad.ac.id

For any inquiries or questions about this course, please drop a message directly to the contact person with details below:

Yudha Rizky Nuari, M.Sc., Apt

Email: yudharizkynuari@gmail.com

Tentative Schedule

Sunday, 11 August 2019	Session and content	Venue
	Participants arrive in Yogyakarta	Adi Soetjipto International Airport
	Check in accommodation	Selected Hotel
	Welcome Party and dinner	Campus Hall of UAD 3

Monday, 12 August 2019	Session and content	Venue
08.00-09.00	Opening Ceremony, brief explanation about the course	Faculty of Pharmacy UAD
09.00-10.00	At a glance: body interact simulation and explanation	Faculty of Pharmacy UAD
10.00-10.15	Coffee break	Faculty of Pharmacy UAD
10.15-12.15	In class lecture I: Cardiology	Faculty of Pharmacy UAD
12.15-13.00	Lunch break & prayer	Faculty of Pharmacy UAD
13.00-15.00	In class lecture II: Respiratory	Faculty of Pharmacy UAD
15.00-15.30	Coffee break and prayer	Faculty of Pharmacy UAD
15.30-17.00	Individual assignment	Faculty of Pharmacy UAD

Tuesday, 13 August 2019	Session and content	Venue
08.00-10.00	In class lecture III: Gastrointestinal	Faculty of Pharmacy UAD
10.00-10.15	Coffee break	Faculty of Pharmacy UAD
10.15-12.15	In class lecture IV: Infectious Disease	Faculty of Pharmacy UAD
12.15-13.00	Lunch break & prayer	Faculty of Pharmacy UAD
13.00-15.00	In class lecture V: Mental Illness	Faculty of Pharmacy UAD
15.00-15.30	Coffee break and prayer	Faculty of Pharmacy UAD
15.30-17.00	Individual assignment	Faculty of Pharmacy UAD

Wednesday, 14 August 2019	Session and content	Learning Outcome	Venue
08.00-17.00	Cultural Activities	Introducing and exposing Indonesian culture and wisdom to participants	Selected cultural Attractions around Yogyakarta

Thursday, 15 August 2019	Session and content	Venue
08.00-12.00	Clinical visit I: Pharmacy of UAD	Pharmacy of UAD
12.00-13.00	Lunch break & prayer	To be announced
13.00-17.00	Clinical visit II: Hospital of UAD	Hospital of UAD
18.00-19.00	Individual assignment	To be announced

Friday, 16 August 2019	Session and content	Venue
08.00-10.00	Presentation of final assignment by participants	Faculty of Pharmacy UAD
10.00-10.30	Course feedback from participants	Faculty of Pharmacy UAD
10.30-11.00	Certificate awarding	Faculty of Pharmacy UAD
11.00-11.30	Closing Ceremony	Campus Hall of UAD 3

Simulation on Mannequin Body Interact







One of Pharmacy of UAD





Hospital of UAD



Beauty of Yogyakarta











